

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	58192	clamp\$3 same voltage	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/03 15:03
S2	31433	S1 same current	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/03 15:04
S3	6308	S2 same load	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/03 15:04
S4	2681	S3 same (transistor transistors PMOS NMOS MOSFET)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/03 15:04
S5	1321	S4 same time	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/03 15:05
S6	953	S5 same (control controlling controlled reduce reducing reduced)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/03 15:07
S7	408	S6 same (gate drain)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/03 15:07
S8	0	("2005/0231272").URPN.	USPAT	OR	OFF	2006/01/03 15:14
S9	0	("2005/0068705").URPN.	USPAT	OR	OFF	2006/01/03 15:14
S10	44128	(driver adj circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/04 07:27
S11	32	S10 same (voltage adj (vary varying))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/04 07:27
S12	13	S11 same transistor	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/04 07:59
S13	6274	(clamp clamping) adj voltage	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/04 08:15

## EAST Search History

S14	2139	S13 same transistor	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/04 08:15
S15	0	("2004/0263240").URPN.	USPAT	OR	OFF	2006/01/10 12:11
S16	645	361/91.1	USPAT	OR	OFF	2006/01/11 08:57
S17	177	S16 and ((clamping clamp) with voltage)	USPAT	OR	OFF	2006/01/10 12:14
S18	5	("6031408"   "6057717"   "6078487"   "6865116"   "6897703").PN. OR ("6985019").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 12:28
S19	44	current adj undershoot	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 12:38
S20	1810164	clamp\$3 voltage	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 12:38
S21	7420	clamp\$3 adj voltage	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 12:50
S22	2872	S21 same transistor	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 12:38
S23	446	S22 same ((voltage adj drop) (step adj down) (reduc\$3 adj voltage))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 12:45
S24	177	S23 same time	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 12:40
S25	439	S22 same ((voltage adj drop) (reduc\$3 adj voltage))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 12:50
S26	38	S25 same interval	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 12:46
S27	3072	clamping adj voltage	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 12:50
S28	1291	S27 same (control\$4 reduc\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 12:51
S29	451	S28 same transistor	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 14:42
S30	29063	(driver adj circuit) and (control\$4) and (current)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 14:43

## EAST Search History

S31	4325463	(driver adj circuit) (control\$4) (current)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 14:43
S32	39170	driver adj circuit	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 14:43
S33	30450	S32 and current	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 14:43
S34	29063	S33 and control\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 14:44
S35	3	S34 and (voltage adj vary\$4 adj circuit)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 14:45
S36	1	("6785108").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 14:46
S37	5	("5081558"   "5206782"   "5536980"   "5616970"   "5946178").PN. OR ("6785108").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/10 14:47
S38	645	361/91.1	USPAT	OR	OFF	2006/01/11 09:07
S39	598	S38 and current	USPAT	OR	OFF	2006/01/11 08:57
S40	263	S39 and load	USPAT	OR	OFF	2006/01/11 08:57
S41	253	S38 and (current with control\$4)	USPAT	OR	OFF	2006/01/11 09:08
S42	41	S38 and (current adj control\$4)	USPAT	OR	OFF	2006/01/11 09:15
S43	45	S38 and current and suppression	USPAT	OR	OFF	2006/01/11 09:20
S44	1	controlling adj current and load and voltage adj snub\$4 adj (network or stack)	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 09:22
S45	6	voltage adj snub\$4 adj (network or stack)	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 09:25
S46	6	current control voltage adj snub\$5 adj (network or stack)	US-PGPUB; USPAT; USOCR	AND	ON	2006/01/11 11:13
S47	115634	current near control\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 10:35
S48	89856	S47 and voltage	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 10:33
S49	1299	S48 and (snub\$ (snub adj (network stack)))	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 10:35

## EAST Search History

S50	195206	current near2 control\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 10:35
S51	18	S49 and undershoot	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 11:11
S52	3495	clamping adj voltage	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 11:19
S53	1161	S52 same (time period interval)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 11:20
S54	251	S53 same reduc\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 11:55
S55	1169	S52 same transistor	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 11:56
S56	196	S55 same (reduc\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 11:57
S57	174	S56 and (time interval period)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 11:57
S58	88	S56 same(time interval period)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 12:09
S59	7831	(clamp adj circuit) (foldback adj clamp adj circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 12:09
S60	4639	S59 same voltage	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 12:10
S61	1767	S60 same (time period interval)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 12:10

## EAST Search History

S62	295	S61 same reduce\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 12:11
S63	329	S61 same reduc\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 12:11
S64	131	S63 same transistor\$2	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 12:11
S65	70	S64 same (source drain)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 12:13
S66	12	S65 same variable	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/01/11 12:13
S67	1	("6853232").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/11 13:42
S68	3310	clamping adj voltage	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 08:49
S69	1007	S68 same (time period interval)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 10:30
S70	222	S69 same reduc\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 08:49
S71	83	S70 same transistor	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 08:50
S72	0	("2005/0117265").URPN.	USPAT	OR	OFF	2006/01/18 08:51
S73	2180	S68 and transistor	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 09:31
S74	1000	S68 same transistor	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 09:31

## EAST Search History

S75	704	361/91.1	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 10:30
S76	45	S75 and (clamping adj voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 11:31
S77	582711	current same (set setting)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 11:34
S78	268	S77 same (undershoot)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 11:35
S79	154	S78 same (time interval period)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 11:35
S80	1	("6772737").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/18 13:07
S81	11182	voltage adj (vary\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:14
S82	503	S81 same (current adj source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:16
S83	162	S82 same resistor	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:17
S84	193757	voltage same current same (switch switches)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:18
S85	23462	S84 same (current adj source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:18
S86	9175	S85 same resistor	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:22

## EAST Search History

S87	16	S86 same (snub\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:18
S88	12825	(current adj source) same (switch) same (series)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:23
S89	1530	S88 same voltage same vary\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:24
S90	41	S88 same (voltage adj vary\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:24
S91	704	361/91.1	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:41
S92	4	S91 and (voltage adj vary\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:41
S93	70	S91 and (current adj source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:52
S94	7784	patel.xa.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:44
S95	0	S94 and dharti	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:44
S96	20397	(current adj source) with switch	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:56
S97	2974	S96 with series	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:53
S98	1528	S97 same voltage	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:54

## EAST Search History

S99	320	S98 same (vary varying variable)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 13:54
S10 0	170	(variable adj current adj source) with switch	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 14:20
S10 1	24777	solenoid same (brake brakes)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 14:20
S10 2	0	S101 same current same (voltages near (step\$1 sequence\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 14:22
S10 3	10	S101 same current same (voltage near (step\$1 sequence\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/18 15:38
S10 4	1	("6587356").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/18 15:39
S10 5	1	("5969964").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/18 15:42
S10 6	328	snu\$5 adj resistor	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 12:45
S10 7	1	S106 same (variable adj current adj source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 12:34
S10 8	10	S106 same (current adj source)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 12:34
S10 9	0	S106 same parallel	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 12:45
S11 0	110	S106 same parallel	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 12:45

## EAST Search History

S11 1	64	S106 with parallel	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 12:55
S11 2	3675885	(driver ad circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:12
S11 3	3097	S112 same (H adj bridge)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:09
S11 4	542	S113 same induct\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:10
S11 5	369	S114 same (voltage voltages)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:10
S11 6	295	S115 same current	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:10
S11 7	106	S116 same load	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:11
S11 8	4984	S112 same (half adj bridge)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:12
S11 9	1613	S118 same induct\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:13
S12 0	1199	S119 same (voltage voltages)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:13
S12 1	718	S120 same current	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:13
S12 2	327	S121 same load	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:13

## EAST Search History

S12 3	44376	(driver adj circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:12
S12 4	302	S123 same (half adj bridge)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:12
S12 5	73	S124 same induct\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:13
S12 6	73	S125 same induct\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:13
S12 7	56	S126 same (voltage voltages)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:13
S12 8	33	S127 same current	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 13:13
S12 9	20	S128 same load	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 14:49
S13 0	164924	current same steps	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 14:49
S13 1	963778	"8" same (reduce reduced reducing)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/01/20 15:16
S13 2	41832	current same steps	US-PGPUB	OR	OFF	2006/01/20 15:17
S13 3	3684	S132 same (reduce reduced reducing)	US-PGPUB	OR	OFF	2006/01/20 15:17
S13 4	608	S133 same (source supply)	US-PGPUB	OR	OFF	2006/01/20 15:18
S13 5	184	S134 same (time period)	US-PGPUB	OR	OFF	2006/01/20 15:18
S13 6	11	S135 same repeat\$5	US-PGPUB	OR	OFF	2006/01/20 15:36
S13 7	6467	(voltage adj vary\$4)	US-PGPUB; USPAT	OR	OFF	2006/01/20 15:36

## EAST Search History

S13 8	1	S137 same (snub\$5 adj resistor)	US-PGPUB; USPAT	OR	OFF	2006/01/20 15:37
S13 9	10524	(voltage adj (vary varying varied))	US-PGPUB; USPAT	OR	OFF	2006/01/20 15:37
S14 0	1	S139 same (snub\$5 adj resistor)	US-PGPUB; USPAT	OR	OFF	2006/01/20 15:37
S14 1	2	snub adj resistor	US-PGPUB; USPAT	OR	OFF	2006/01/20 15:37
S14 2	178	(snub snubber) adj resistor	US-PGPUB; USPAT	OR	OFF	2006/01/20 15:37
S14 3	63	S142 same current same induct\$5	US-PGPUB; USPAT	OR	OFF	2006/01/20 15:38
S14 4	20	S143 same parallel	US-PGPUB; USPAT	OR	OFF	2006/01/20 15:38
S14 5	208	high adj side adj drive	US-PGPUB; USPAT	OR	OFF	2006/01/21 08:55
S14 6	85	S145 same (low adj side adj drive)	US-PGPUB; USPAT	OR	OFF	2006/01/21 08:57
S14 7	7	S146 same induct\$6	US-PGPUB; USPAT	OR	OFF	2006/01/21 08:57
S14 8	42	S145 same second	US-PGPUB; USPAT	OR	OFF	2006/01/21 09:10
S14 9	17	S148 same (low adj side adj drive)	US-PGPUB; USPAT	OR	OFF	2006/01/21 09:06
S15 0	2	S149 same induct\$6	US-PGPUB; USPAT	OR	OFF	2006/01/21 08:57
S15 1	20	("4024417"   "4412142"   "4458158"   "4466011"   "4819049"   "4879584"   "4890149"   "5072278"   "5243214"   "5309078"   "5491358"   "5495123"   "5504402"   "5514939"   "5543650").PN. OR ("5834826").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/21 09:37
S15 2	54064	drive adj (circuit circuits)	US-PGPUB; USPAT	OR	OFF	2006/01/21 10:35
S15 3	43529	driver adj (circuit circuits)	US-PGPUB; USPAT	OR	OFF	2006/01/21 10:41
S15 4	21	S153 same (high adj side adj drive)	US-PGPUB; USPAT	OR	OFF	2006/01/21 10:40
S15 5	7	S154 same (low adj side adj drive)	US-PGPUB; USPAT	OR	OFF	2006/01/21 10:37
S15 6	49	S152 same (high adj side adj drive)	US-PGPUB; USPAT	OR	OFF	2006/01/21 10:40
S15 7	4961	S153 same (coil\$1 induct\$6)	US-PGPUB; USPAT	OR	OFF	2006/01/21 10:41

## EAST Search History

S15 8	150	S157 same (high adj side)	US-PGPUB; USPAT	OR	OFF	2006/01/21 10:41
S15 9	89	S158 same (low adj side)	US-PGPUB; USPAT	OR	OFF	2006/01/21 10:41
S16 0	5	("5469096").PN. OR ("6222751").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/21 10:48
S16 1	1	("5969964").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/21 12:37
S16 2	43529	driver adj (circuit circuits)	US-PGPUB; USPAT	OR	OFF	2006/01/21 12:38
S16 3	377	S162 same (low adj side)	US-PGPUB; USPAT	OR	OFF	2006/01/21 12:38
S16 4	85	S162 same (low adj side adj driver adj circuit)	US-PGPUB; USPAT	OR	OFF	2006/01/21 12:39
S16 5	4625	S162 same (induct\$6 coil)	US-PGPUB; USPAT	OR	OFF	2006/01/21 12:39
S16 6	15	S165 same (low adj side adj driver adj circuit)	US-PGPUB; USPAT	OR	OFF	2006/01/21 12:46
S16 7	1	("6772737").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/21 12:51
S16 8	0	("20040102900A1").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/21 12:51
S16 9	1	("20040102900").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/21 12:51
S17 0	113	S165 same (H adj bridge)	US-PGPUB; USPAT	OR	OFF	2006/01/21 13:04
S17 1	91	S165 same (half adj bridge)	US-PGPUB; USPAT	OR	OFF	2006/01/21 13:26
S17 2	46	half adj bridge adj driver adj circuit	US-PGPUB; USPAT	OR	OFF	2006/01/21 13:26
S17 3	10	S172 same (induct\$6 load coil)	US-PGPUB; USPAT	OR	OFF	2006/01/21 13:28
S17 4	6	S172 same (induct\$6 coil)	US-PGPUB; USPAT	OR	OFF	2006/01/21 13:49
S17 5	43529	driver adj (circuit circuits)	US-PGPUB; USPAT	OR	OFF	2006/01/21 13:49
S17 6	1318	S175 same (inductance inductive)	US-PGPUB; USPAT	OR	OFF	2006/01/21 13:50
S17 7	1589	S175 same solenoid	US-PGPUB; USPAT	OR	OFF	2006/01/21 13:50

## EAST Search History

S17 8	115	S177 same (brake brakes)	US-PGPUB; USPAT	OR	OFF	2006/01/21 13:50
S17 9	48	S178 same (car automotive auto vehicle)	US-PGPUB; USPAT	OR	OFF	2006/01/21 13:51
S18 0	7319	solenoid same current same voltage	US-PGPUB; USPAT	OR	OFF	2006/01/21 13:53
S18 1	809	S180 same driver	US-PGPUB; USPAT	OR	OFF	2006/01/21 13:51
S18 2	60	S181 same (brake brakes)	US-PGPUB; USPAT	OR	OFF	2006/01/21 13:52
S18 3	1	("5377791").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/21 14:09
S18 4	0	S183 and ((inductor coild solenoid winding) and brake\$3)	US-PGPUB; USPAT	OR	OFF	2006/01/21 14:10
S18 5	1	("20020074194").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/21 14:46
S18 6	3	snub adj resistor	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/14 10:09
S18 7	278	snubber adj resistor	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/14 10:09
S18 8	93	S187 same (power current) same induct\$5	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/14 10:09
S18 9	30	S188 same parallel\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/14 10:30
S19 0	537911	induct\$6	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/14 10:30
S19 1	85	S190 same (current near steps)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/14 10:30
S19 2	17	S191 same (repeat cycle)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/14 10:48

## EAST Search History

S19 3	10	S192 same (time timer timed timing)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/14 11:04
S19 4	761	361/91.1	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/14 11:56
S19 5	664	361/91.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/08/14 11:06
S19 6	6	((clamp\$3 near voltage\$1) and (transistor\$1 PMOS NMOS MOSFET) and (reduc\$6) and (repeat\$4 cycle) and (period time timer timed timing) and (current)).clm.	US-PGPUB	OR	OFF	2006/08/14 12:33
S19 7	227	361/91.7.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/14 12:34